

Daily GLOWBUGS

Digest: V1 #53

via AB4EL Web Digests @ SunSITE

Purpose: building and operating vacuum tube-based QRP rigs

[AB4EL Ham Radio Homepage @ SunSITE](#)

%%%% GlowBugs %%%%% GlowBugs %%%%% GlowBugs %%%%% GlowBugs %%%%%

Subject: glowbugs V1 #53

glowbugs

Sunday, June 8 1997

Volume 01 : Number 053

Date: Sat, 7 Jun 1997 00:22:07 -0500 (CDT)

From: mjsilva@ix.netcom.com (michael silva)

Subject: re:Inexpensive generic pentodes!

>I recently ran across this sales notice on one of the Usenet groups.
>The 6AG5 is an RF/IF sharp cutoff pentode rated to 400 MHz. Its
>pinout is slightly different from the standard 6AU6/6BZ6/6CB6/etc.
>pentodes in that it has two cathode pins to reduce inductance and the
>suppressor is internally connected to the
>cathode. <snip>

>At this price, I hope some of the Glowbugs folks take advantage of the
>opportunity to experiment. I don't mind throwing away a few dimes for
>educational purposes learning about a new circuit - and this tube
>should be useful from audio through VHF.

Well I must admit after I saw this posting I couldn't pass up the price either. The 6AG5 is a venerable old bottle, being one of the first miniature tubes and widely used starting in WW2 (along with its slightly hotter cousin the 6AK5) especially in radar applications, and in FM radio and TV after that. The innards of the 6BC5 and 6CB6, as well as the pentode section of the 6U8 are similar, and the RCA tube manual provides an RC amplifier table for them all.

73,
Mike, KK6GM

Date: Sat, 07 Jun 1997 09:32:25 -0600

From: Doug <doug@sunrise.alpinet.net>

Subject: Spy set....?

Hi fellow Fingerburners....got a question for the group. I've just

aquired a nifty little GB rig...supposedly was a spy radio. It's made up of separate units, transmitter(crystal controlled), reciever, power supply and apparently a power regulator and filter unit. All units are flat and small, and plug together with small, short cables that are stowed in the side of each unit, and make up a rig laying on the bench. It came with earphones and cables to plug it all up...fun to play with.

I've had it fired up on 7050 last week, but it seems to have at least one bad cap in the power filter unit..got pretty hot and started to emit those bone chilling fry/zap sounds and was leaking some of its life blood out onto the unit. So, shut it down and will fix it when time is available (the river goes down).

Has anyone got a clue as to the history of these units? It's a neat little rig, 'would just like to know more.

Thanks

Doug Dunn, K7YD
Livingston, MT

Date: Sat, 7 Jun 1997 13:22:53 -0800
From: "Kenneth G. Gordon" <keng@uidaho.edu>
Subject: Re: HW 16 mods...

Leon:

I will send you what I have so far. Most of the mods I have worked up are not yet finished since they need a bit of "tweaking" of values to get best performance.

I will mail you my mod to the power supply and crystal oscillator circuit, and a couple of mods I found in a Hints and Kinks which you will find useful. The modification to the power supply and crystal oscillator circuit will greatly reduce the HW-16s tendency to chirp badly when using crystal control.

I will also mail you my PRELIMINARY mod to make the HW-16 full transceive. Remember, this is ONLY PRELIMINARY as I have NOT had time to tweak the circuit values yet. For instance, I am sure the heterodyne crystal frequency will have to be changed a bit in order to get the tx to "net" with the rx.

Ken W7EKB

Date: Sat, 07 Jun 1997 18:14:00 -0400
From: "Yves A. Feder W1UX" <y.a.feder@snet.net>
Subject: Info on DAG1 RDF set?

Has anyone ever run across a Signal Corps surplus item nomenclature RDF Set - DAG-1?

It consists of a self contained receiver - mf through 18 mcs. approx -

with bfo, sense antenna, and shielded loop controlled from front panel.
Works from dry battery set carried in lower compartment.

Looks like something from early 40's.

Any info would be appreciated!

73 Al W1UX

Yves Albert (Al) "Al" Feder
electric mail: y.a.feder@snet.net
Harpsichord Workshops and Recording Studios
and, dare we say it,
Home of "Tiny Radio Theater(tm)" and "Sound Cartoons(tm)"
and of the studios and transmitting facilities of W1UX Radio....

"Danged if'n I unnerstand all I know!"

<http://www.geocities.com/paris/1769>

Date: Sat, 7 Jun 1997 15:43:17 -0700 (PDT)

From: Ken Gordon <keng@uidaho.edu>

Subject: Re: Info on DAG1 RDF set?

>
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> Has anyone ever run across a Signal Corps surplus item nomenclature
> RDF Set - DAG-1?
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> It consists of a self contained receiver - mf through 18 mcs. approx -
> with bfo, sense antenna, and shielded loop controlled from front panel.
> Works from dry battery set carried in lower compartment.
>
> Looks like something from early 40's.
>
> Any info would be appreciated!

I had one once, and used it regularly. The receiver seemed to me to be quite sensitive for such a simple little rig, although its selectivity left a lot to be desired. Also, with the BFO on, a tap on the case produced noticeable wobble in the received signal. The one I had was mounted in a green wrinkle painted case which looked like a small metal suitcase, complete with handle on top. The front opened, then folded in half downward. The loop and a whip were carried in the lid. The loop was about 12" or more in diameter and operated from a knob with a compass rose behind it on the front panel. There were tuning and nulling controls on the front panel also. The loop plugged into a socket on the top of the case to the right of the carrying handle. I think the whip went to the left of the carrying handle.

Below the receiver there was room for both a battery, or an AC powersupply on the right. At the left, there was a small hinged door about 4" square with a knob on it and a friction latch, behind which were the spares. Mine came with the spares and was brand new when I got it from

MARS.

Its direction finding ability (after I figured out how to use it) was pretty good. As I remember it there was a place in the center of the loop to mount a compass, which didn't come with mine.

Is that about right?

: -)

I kinda wish I still had it. I wanted to build a small transmitter into the bottom but never got to it.

Ken W7KB

Date: Sat, 07 Jun 97 17:42:10 PDT
From: "Adam, KD6POC" <kd6poc@jps.net>
Subject: 6AG5

Dear Glowbuggers,

Does anyone remember who was it that was advertising the 6AG5 tubes? I = need his Address (E-mail) so that I can arrange an order. A friend and = I have a radio that uses these, so this would be a great source for us = to "Stock up".

Thanks!

Adam McLaughlin KD6POC
QRG: 7037 KHz
kd6poc@jps.net
<http://www.jps.net/jmclaugh>

Date: Sat, 07 Jun 1997 20:53:17 -0600
From: Doug <doug@sunrise.alpinet.net>
Subject: Re: Spy set....?

Hi Ken...nope, no brass plate, not a clue as to it's manufacture or origin. I get the impression it will work on A/C from 60 to 250 volts, switch selectable and also a 6 volt battery. It's painted black and has some numbers of unknown use stenciled on it, but nothing useful.

At any rate, it works pretty well...just need to get the bugs out of the power supply.

Thanks

Doug, K7YD

Ken Gordon wrote:
>
> >

> > Has anyone got a clue as to the history of these units? It's a neat
> > little rig, 'would just like to know more.
>
> Are there any numbers or other identifying marks on it/them?
>
> Ken W7EKB
>
> (Born in Kalispell 1942, lived 35 years in Missoula)

Date: Sat, 07 Jun 1997 21:01:21 -0600
From: Doug <doug@sunrise.alpinet.net>
Subject: Re: Spy set....?

HI Bob...nope, dont think it's a GRC-109. It's got absolutly no info
or brass plate on it. The transmitter unit is an RT-6, the reciever is
an RR-6, the power supply unit is an RP-6 and the filter unit is an
RA-6. Other than that info and a little paper that sez it passed QC,
that's about it. I get the impression that nobody wanted to be credited
with it's design/construction.

I'd love to have a print of the lil' bugger...would sure aid in getting
it all back up and running.

Any ideas?

Thanks

Doug, K7YD

Bob Rolfness wrote:

>
> Doug wrote:
> >
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> >
> > Thanks
> >
> > Doug Dunn, K7YD
> > Livingston, MT
>

> Doug - Is this a AN/GRC-109 radio set? Or a RS-1. Is so, lots of
> information is available here on the list and I can send you some data.
> If its one of these, let me know and I'll send you some drawings.
>
> 73's Bob W7VZX

Date: Sat, 7 Jun 1997 23:31:46 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Re: Spy set....?

Bob: (W7VZX)

Send him that article you sent me on the GRC-109 and its derivatives. I think what he has is one of the later model replacements for the 109.

On Sat, 7 Jun 1997, Doug wrote:

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Ken W7EKB

End of glowbugs V1 #53

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